



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/871,479	05/31/2001	Nischal Abrol	000256	1536

23696 7590 07/09/2007
QUALCOMM INCORPORATED
5775 MOREHOUSE DR.
SAN DIEGO, CA 92121

EXAMINER	
PHAM, BRENDA H	

ART UNIT	PAPER NUMBER
2616	

NOTIFICATION DATE	DELIVERY MODE
07/09/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com
kscanla@qualcomm.com
nanm@qualcomm.com

Office Action Summary	Application No. 09/871,479	Applicant(s) ABROL ET AL.	
	Examiner Brenda Pham	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-26 are currently pending in the application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what is being claimed, "a method" or "a computer readable medium".

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 3, 5-9 12, 14, 16-19, 21, 23 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by **Willkie et al (US 6,230,012 B1)**.

Regarding claims 1, 3, 12, 14, 16-19, 21, 23 and 25, **Willkie et al** disclose a base station and method for re-synchronizing a PPP link, comprising: detecting a trigger indicating whether a remote station associated with an existing network server is associated with a new base station; determining whether the new base station is associated with a new network server; and re-synchronizing the PPP link if the remote station is associated with the new network server; and maintaining existing synchronization of the PPP link with the existing network server if the new base station is associated with the existing network server (**"while in the open station 508, the MT2 device 104 may be handed off to another BS/MSC 106. Typically, this will happen as the MT2 device 104 moves from one geographic location to another that is outside the service area of the original BS/MSC 106. If the two BS/MSC's are not served by the same IWF 108, then an inter-IWF handoff occurs. The MT2 device 104 may detect this either by examining the IS-95 packet Zone ID, or by noting a change in the System Identification (SID) or Network Identification (NID) of the serving BS/MSC 106. In either case, the MT2 device 104 will transition to the initiate PPP resync state 504."** (see column 12, line 6-15).

Regarding claims 5-7, **Willkie et al** further teach wherein the control packet comprises a link control protocol (LCP) negotiation request and/or an Internet protocol control protocol (IPCP) negotiation request. (**"The first LCP packet is cached by the MT2 device 104 for use after an inter-IWF handoff...with respect to the initiate PPP resync...The MT2 device 104 continues to monitor the PPP packets being**

exchanged between the TE2 device 102 and the IWF 108 until an IPCP packet from the TE2 device 102 is detected by the MT2 device 104. This IPCP packet is then examined by the MT2 device 104 to determine whether a static or dynamic IP address is being requested in the IP address configuration option of the reconfiguration request..., see column 9, line 11-25).

Regarding claim 8, **Willkie et al** further teach wherein the re-synchronizing comprises re-synchronizing the PPP link only on the Um interface (see figure 7).

Regarding claim 9, **Willkie et al** further teach wherein the network server comprises an interworking function (IWF), see figure 2.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 2, 13, 20 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Phillips et al (US 6,721,555 B1)** in view of **Rasanen (US 5,920,545)**.

Regarding claims 2, 13, 20 and 24, the detecting comprising detecting an RLP reset is missing from **Phillips et al**. However, **Rasanen** discloses in column 2, lines 35-

37, and column 7, lines 4-6, that the RLP reset state causes the releasing of a connection when the quality of the link degrades to a certain level.

It would have been obvious to one skilled in the art at the time of the invention to resynch the PPP connection when an RLP reset was detected. The motivation would be to resynch the remaining connections to the mobile terminal when it releases one of its connections.

8. Claims 4, 11, 15, 22 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Willkie (US 6,230,012 B1)** in view of **Kumar (US 6,757,270)**.

Regarding claims 4, 15, 22 and 26, the detecting comprising detecting coming out of dormancy is missing from **Willkie et al.** However, this is disclosed in **Kumar**, column 3, lines 59, column 4, line 9 (disclosing the need for synchronization during the reactivation process).

It would have been obvious to one skilled in the art at the time of the invention was made to re-synchronize in the event of reactivation of the mobile. The motivation would be to allow the formerly dormant mobile to resume communications via a functioning dedicated channel, which it did not have during dormancy (**Kumar, column 3, lines 62-65**).

Regarding claim 11, the remote station functioning in a CDMA environment is missing from **Willkie et al.** However, **Kumar** discloses in column 1, lines 20, and PDSN system functioning in a CDMA network.

It would have been obvious to those having ordinary skill in the art at the time of the invention to use the PSGNs of Kim in the CDMS system of Kumar. The motivation would be to provide high-speed data packet service in a common type of cellular environment (see Kim, column 1, lines 8-10).

9. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Willkie et al (US 6,230,012 B1)** in view of **Basiller (US 6,728,536)**.

Regarding claim 10, the network server comprising a PDSN is missing from **Willkie et al**. However, **Basiller** discloses in column 4, lines 2-4, use of a PSDN in a mobile network.

It would have been obvious to one skilled in the art at the time of the invention to use a PDSN as the network server. The motivation would be to support packet communications.

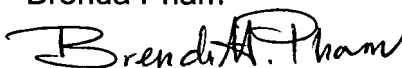
Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Pham whose telephone number is (571) 272-3135. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild, can be reached on (571) 272-2092.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

June 13, 2007
Brenda Pham



BRENDA PHAM
PRIMARY EXAMINER